

README_install

Instructions for installing COGPC.

R. Buck

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---Installing COGPC-----

1. Move the self-extracting archive file
COGPC_Distrib11.10.05ar.zip
to a convenient place in your file system.
2. Double-click on the file to unpack the COG files.
3. Double-click the PCinstall batch file to create the COGPC.bat batch
file, which you will use to run COG.
4. Copy the COGPC.bat to each user's COG problem directory.

If you move the datax6 folder of COG libraries to another location,
you will have to update the path in file COGconfig10.6 to point
to the new location.

---Starting COG-----

Under Win32, COG can be started in several ways:

* Double-clicking on the COGPC.bat icon;

* Opening a Command-prompt window, and typing:

COGPC

or

COGPC input-filename

* Opening a bash shell window, and typing:

COGPC.bat

or

COGPC.bat input-filename

---Verifying your installation-----

Run the test problems in /tests, and compare the .out
files to the .outRPC reference output files. This can
be done using the included Perl script COGV. The
command would look like:

```
perl COGV ../COGPC.bat COGVin.txt RPC
```

assuming you are running in the "tests" directory.

Following installation, you should run the perl script COGV,
in the /tests folder. It will run your installed COG over the
list of test problems in file COGVin, then compare the output
files to the Reference output files.

On machines that support MPI-based parallel-processing,
the test problem tpar1 should be run manually.

---COG Versions---

For some platforms, there are two versions of the COG
executable, such as COG10 and COG10d. The first version
is the standard version, which for the most part is statically linked.

The second version, with the appended "d", is the
dynamically-linked version, which requires several
runtime libraries on your machine to load successfully.
This version supports the user-defined detector and
source features (usrdet and usrsor). In order to use
the user-defined features, you must install the
Portland Group PGI Fortran/C compiler package for
Windows PC: PGI Workstation 5.1 for Windows.

NOTE: COGPCd is not in distribution yet.

The COG distribution usrdet folder contains
instructions and examples of usrjets and usrsors.